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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/641,114 08/17/00 SHORTRIDGE

P 11984-005001

EXAMINER

PM82/1023

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ART UNIT

PAPER NUMBER

3643

DATE MAILED:

10/23/01

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

09/641,114

Applicant(s)

SHORTRIDGE ET AL.

Examiner

Jeffrey L. Gellner

Art Unit

3643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 17 August 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

PETER M. POON  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600

*pmf*

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 6-10, 13-21, 22-25, 28,29, 30-33, 36-39, and 43-51 are rejected under 35

U.S.C. 103(a) as being unpatentable over Poehlman (document AEE from Applicant's 1449) in view of Reuters (Chicago Sports Final Ed., page 4, 3 Sept. 1998).

As to Claim 1, Poehlman discloses the method steps of preparing a non-genetically modified processed food product (defined as, for example, at wheat grown as certified seed that is used for bread production) comprising certifying the seed was planted and grown under conditions effective for harvesting a crop containing 5% or 1% or less genetically modified seed, (page 451, col. 2, sections b and d, **and visually inspecting field for any crop plant growing and eliminating off-types whether they be genetically or nongenetically modified**), and harvesting, processing (defined as cleaning seed with screens etc.) and certifying the crop (page 451, col. 2, section f). The purity of seed at the 5% or less level is shown by the certified seed tag (page 450, Fig. 20.2) with the row for "Other Crop Seed" and the accompanying percentage column. Not disclosed is certifying the seed contains 5% or less of genetically modified crop material. Reuters, however, discloses the motivation to certify for contamination by genetically

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modified crop material. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman by certifying for contamination by genetically modified crop material so as to be able to sell their harvest (see Reuters).

As to Claims 2 and 3, Poehlman as modified by Reuters does not disclose the certifying step producing a crop effective for producing a processed food containing 1, 0.1, or 0.01% or less genetically modified seed. However, Poehlman discloses seed with levels of "Other Crop Seed," "Weed Seed," and "Noxious Seed" as "None." It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters to include genetically modified seed in these three categories when they are the existing off-types to insure high yields with pure seed.

As to Claims 6 and 7, Poehlman does not disclose the certifying of using an application susceptibility test for producing a crop effective for producing a processed food containing 1, 0.1, or 0.01% or less genetically modified seed. However, Poehlman discloses seed with levels of "Other Crop Seed," "Weed Seed," and "Noxious Seed" as "None." Examiner takes official notice that ELISA and tests with antibodies are old and notorious well known in the agronomic and plant genetics arts as a test to ID genotype or phenotype. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by using susceptibility tests to include genetically modified seed in these three categories when they are the existing off-types to insure high yields with pure seed.

As to Claims 8-10, not disclosed is testing for genetically modified seed prior to planting, harvesting, and processing. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by testing for

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genetically modified seed contamination prior to planting, harvesting and processing to ensure purity since consumer groups in Asia and the EU have generated a tide of protest against the use of genetically modified seed in foods (see Reuters).

As to Claims 13,14, 17, 20, and 21, Poehlman as modified by Reuters further disclose the nongenetically modified crop being small grains, rice, soybeans, or corn (see Poehlman pages 456 and 457).

As to Claims 15,16,18, and 19, the limitation of contamination being less than 0.1% is disclosed as described above. Not disclosed is the food product being corn sweetener or soy sauce. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by making the crop into corn sweetener or soy sauce because these foods are well known uses for these crops.

As to Claims 22 and 36, Poehlman discloses the method steps of growing and harvesting a pure line of seed used for a processed food product (defined as, for example, at wheat grown as certified seed that is used for bread production) comprising certifying the seed was planted and grown under conditions effective for harvesting a crop containing 5% or 1% or less off-types modified seed, (page 451, col. 2, sections b and d, **and visually inspecting field for any crop plant growing and eliminating off-types whether they be genetically or nongenetically modified**), and harvesting, processing (defined as cleaning seed with screens etc.) and certifying the crop (page 451, col. 2, section f). The purity of seed at the 5% or less level is shown by the certified seed tag (page 450, Fig. 20.2) with the row for "Other Crop Seed" and the accompanying percentage column. Not disclosed is certifying the seed contains 5% or less of

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non genetically modified crop material when the pureline is genetically modified seed. Reuters, however, discloses the motivation to certify for contamination by genetically modified crop material. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman by certifying for contamination by either genetically modified or nongenetically modified crop material so as to be able to sell their harvest (see Reuters).

As to Claims 23-25, Poehlman as modified by Reuters does not disclose the certifying step producing a crop effective for producing a processed food containing 1, 0.1, or 0.01% or less genetically modified seed. However, Poehlman discloses seed with levels of "Other Crop Seed," "Weed Seed," and "Noxious Seed" as "None." It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters to include nongenetically modified seed in these three categories when they are the existing off-types to insure high yields with pure seed.

As to Claims 28 and 29, Poehlman does not disclose the certifying of using an application susceptibility test for producing a crop effective for producing a processed food containing 1, 0.1, or 0.01% or less genetically modified seed. However, Poehlman discloses seed with levels of "Other Crop Seed," "Weed Seed," and "Noxious Seed" as "None." Examiner takes official notice that ELISA and tests with antibodies are old and notorious well known in the agronomic and plant genetics arts as a test to ID genotype or phenotype. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by using susceptibility tests to include genetically modified seed in these three categories when they are the existing off-types to insure high yields with pure seed.

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As to Claims 30-33, 37-39, not disclosed is testing for genetically modified seed prior to planting, harvesting, storing, and processing. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by testing for genetically modified seed contamination prior to planting, harvesting, including cleaning equipment before harvest and bins for storage, and processing to ensure purity since consumer groups in Asia and the EU have generated a tide of protest against the use of genetically modified seed in foods (see Reuters).

As to Claims 43, Poehlman discloses the method steps of growing and harvesting a pure line of seed used for a processed food product (defined as, for example, at wheat grown as certified seed that is used for bread production) comprising certifying the seed was planted and grown under conditions effective for harvesting a crop containing 5% or 1% or less off-types modified seed, (page 451, col. 2, sections b and d, **and visually inspecting field for any crop plant growing and eliminating off-types whether they be genetically or nongenetically modified**), and harvesting, processing (defined as cleaning seed with screens etc.) and certifying the crop (page 451, col. 2, section f). The purity of seed at the 5% or less level is shown by the certified seed tag (page 450, Fig. 20.2) with the row for "Other Crop Seed" and the accompanying percentage column. Not disclosed is inspecting the processing facility before processing the crop to maintain a product containing 5% or less of genetically modified crop material. Reuters, however, discloses the motivation to maintain pure crop material from farmer's field to food product. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman by inspecting and keeping clean the processing food plants as motivated by Reuters so that food producers can sell their product.

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As to Claims 44-51, these limitations are disclosed in a similar manner as described above.

Claims 4,5, 26, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Poehlman (document AEE from Applicant's 1449) in view Reuters (Chicago Sports Final Ed., page 4, 3 Sept. 1998) in further view of *Use of DNA in Identification* (document AU on Applicant's 1449) (hereinafter "Lander").

As to Claims 4 and 5, the limitations of Claim 1 are disclosed as described above. A certifying step using genetic testing is not disclosed. Lander, however, discloses using genetic tests (DNA technology) to distinguish among genotypes (pages 1,2,and 6) and the 1 or 0.01% levels can be achieved by increasing the size of sample . It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the steps as disclosed in Poehlman as modified by Reuters by using genetic testing (DNA fingerprinting) as disclosed by Lander in the certifying step so as to increase the purity of seed planted or use as a processed seed product so as to increase yield by not having off-types.

As to Claims 26 and 27, the limitations of Claim 22 are disclosed as described above. A certifying step using genetic testing is not disclosed. Lander, however, discloses using genetic tests (DNA technology) to distinguish among genotypes (pages 1,2,and 6) and the 1 or 0.01% levels can be achieved by increasing the size of sample . It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the steps as disclosed in Poehlman as modified by Reuters by using genetic testing (DNA fingerprinting) as disclosed by Lander in



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the certifying step so as to increase the purity of seed planted or use as a processed seed product so as to increase yield by not having off-types.

Claims 11, 12, 34, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Poehlman (document AEE from Applicant's 1449) in view Reuters (Chicago Sports Final Ed., page 4, 3 Sept. 1998) in further in view of Montanari et al. (5,478,990; document AD on Applicant's 1449).

As to Claim 11, the limitations of Claim 1 are disclosed as described above. Not disclosed is the use of lot ID numbers which track the lot during processing. Montanari et al., however, discloses the use of ID tracking of food products from point of origin (see abstract). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by using a tracking ID from point of origin through the processing phase so as to track contaminants such as pathogens (see abstract of Montanari et al.)

As to Claim 12, Poehlman as modified by Reuters as further modified by Montanari et al. further disclose establishing an ID number when the crop is harvested (see abstract of Montanari et al.)

As to Claim 34, the limitations of Claim 1 are disclosed as described above. Not disclosed is the use of lot ID numbers which track the lot during processing. Montanari et al., however, discloses the use of ID tracking of food products from point of origin (see abstract). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Poehlman as modified by Reuters by using a tracking ID from point of origin

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through the processing phase so as to track contaminants such as pathogens (see abstract of Montanari et al.)

As to Claim 35, Poehlman as modified by Reuters as further modified by Montanari et al. further disclose establishing an ID number when the crop is harvested (see abstract of Montanari et al.)

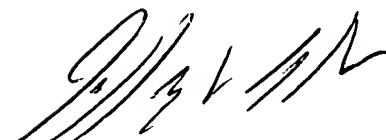
### *Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kramer et al. discloses in the prior art the need to keep food processing plants clear of contaminants.

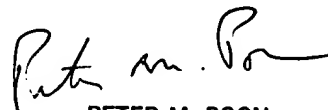
Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Jeffrey L. Gellner whose telephone number is 703.305.0053. The Examiner can normally be reached Monday through Thursday from 8:30 am to 4:00 pm. The Examiner can also be reached on alternate Fridays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Peter Poon, can be reached at 703.308.2574. The fax phone numbers for the Technology Center where this application or proceeding is assigned are 703.305.7687, 703.305.3597, and 703.306.4195.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.1113.



Jeffrey L. Gellner



PETER M. POON  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600

**Attachment for PTO-948 (Rev. 03/01, or earlier)**

6/18/01

**The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.**

**INFORMATION ON HOW TO EFFECT DRAWING CHANGES**

**1. Correction of Informalities -- 37 CFR 1.85**

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may **NOT** be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

**2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.**

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

**Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application